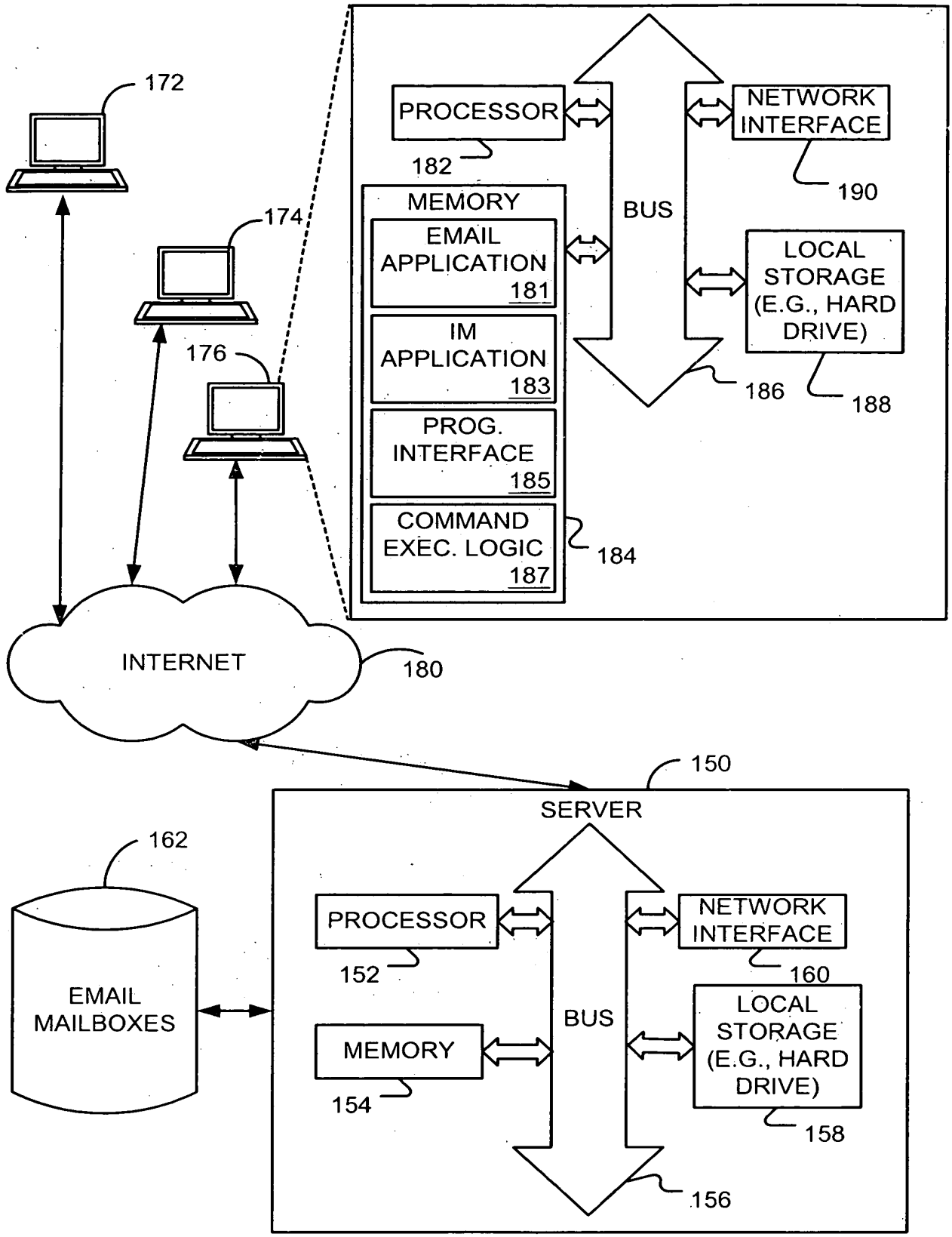
172
174
176
PROCESSOR
182
NETWORK INTERFACE
190
MEMORY
EMAIL APPLICATION 181
IM APPLICATION 183
PROG. INTERFACE 185
COMMAND EXEC. LOGIC 187
184
BUS
LOCAL STORAGE (E.G., HARD DRIVE)
186
188
INTERNET
180
150
SERVER
162
EMAIL MAILBOXES
PROCESSOR
152
NETWORK INTERFACE
160
MEMORY
154
BUS
LOCAL STORAGE (E.G., HARD DRIVE)
158
156

FIG. 1

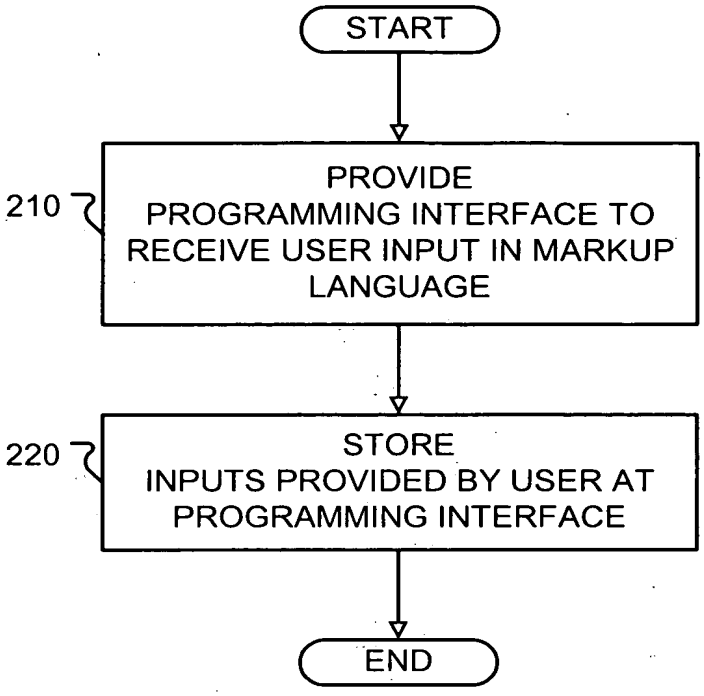
START
210
PROVIDE PROGRAMMING INTERFACE TO RECEIVE USER INPUT IN MARKUP LANGUAGE
220
STORE INPUTS PROVIDED BY USER AT PROGRAMMING INTERFACE
END

FIG. 2

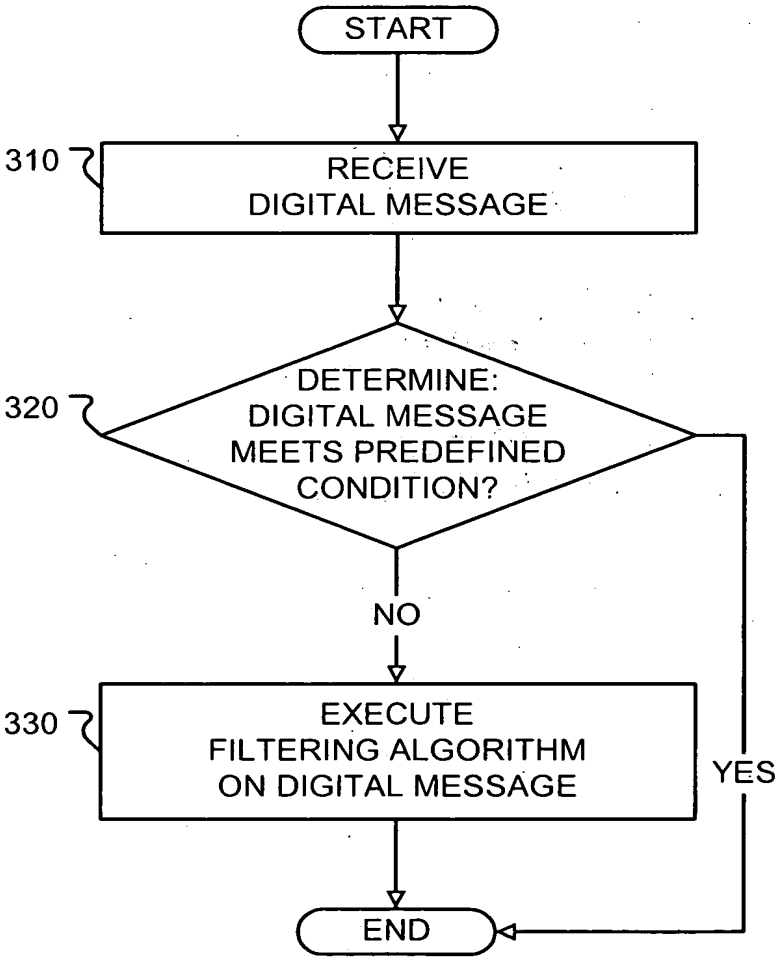
START
310
RECEIVE DIGITAL MESSAGE
320
DETERMINE: DIGITAL MESSAGE MEETS PREDEFINED CONDITION?
NO
YES
330
EXECUTE FILTERING ALGORITHM ON DIGITAL MESSAGE
END

FIG. 3

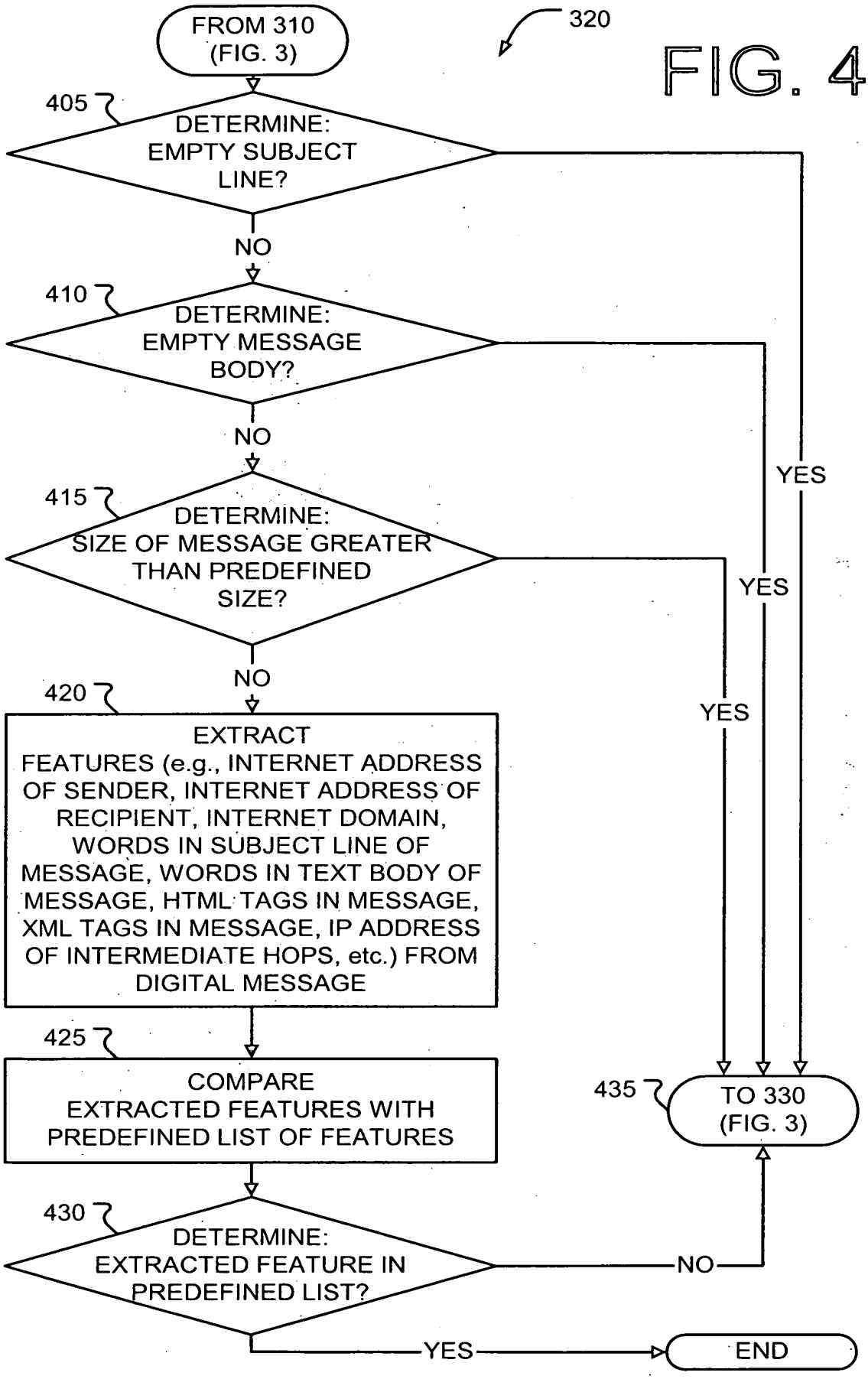
320
FROM 310 (FIG. 3)
405
DETERMINE: EMPTY SUBJECT LINE?
NO
410
DETERMINE: EMPTY MESSAGE BODY?
NO
415
DETERMINE: SIZE OF MESSAGE GREATER THAN PREDEFINED SIZE?
NO
420
EXTRACT FEATURES (e.g., INTERNET ADDRESS OF SENDER, INTERNET ADDRESS OF RECIPIENT, INTERNET DOMAIN, WORDS IN SUBJECT LINE OF MESSAGE, WORDS IN TEXT BODY OF MESSAGE, HTML TAGS IN MESSAGE, XML TAGS IN MESSAGE, IP ADDRESS OF INTERMEDIATE HOPS, etc.) FROM DIGITAL MESSAGE
425
COMPARE EXTRACTED FEATURES WITH PREDEFINED LIST OF FEATURES
430
DETERMINE: EXTRACTED FEATURE IN PREDEFINED LIST?
NO
YES
YES
YES
YES
435
TO 330 (FIG. 3)
YES
END

FIG. 4

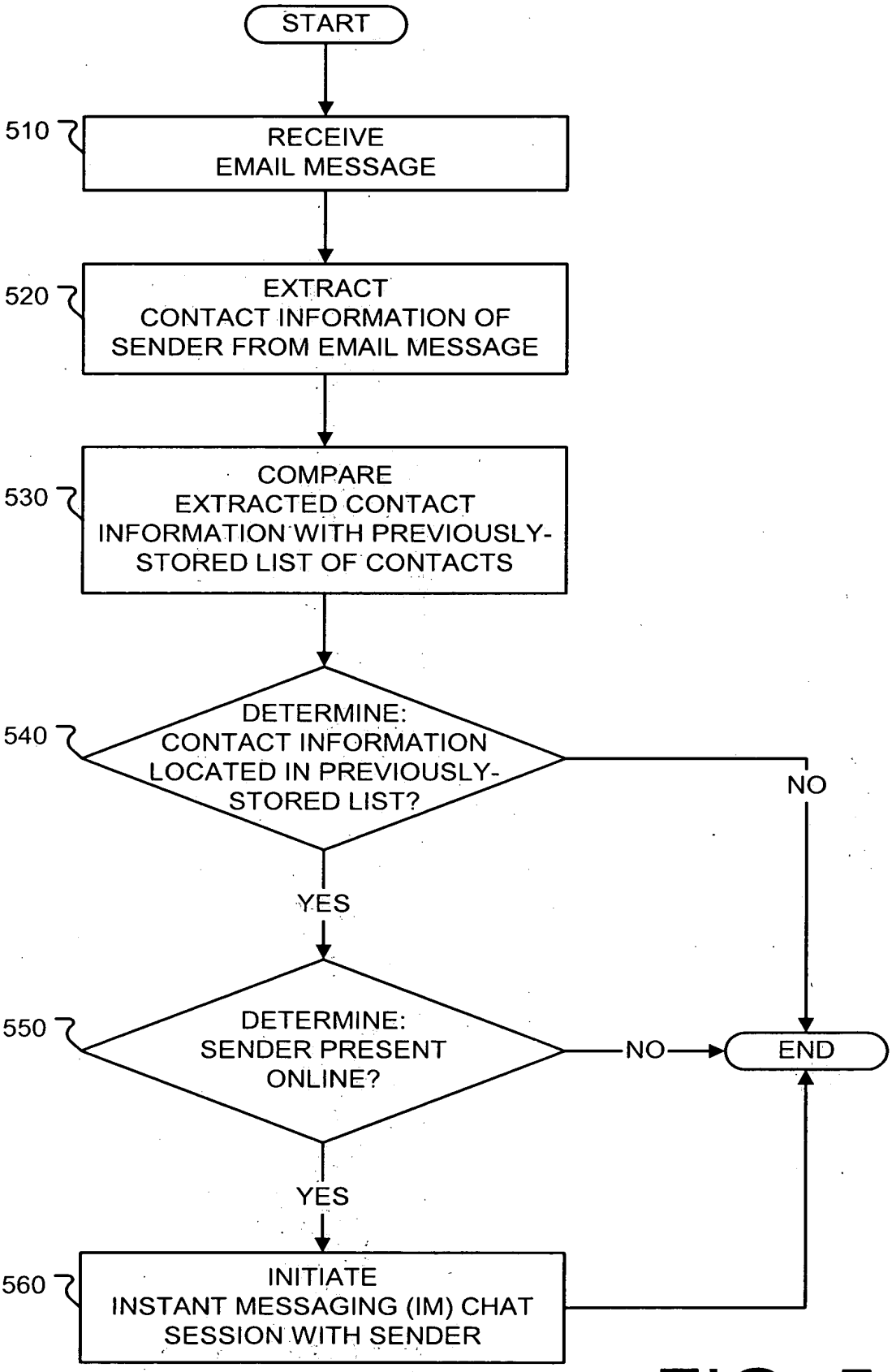
START
510
RECEIVE EMAIL MESSAGE
520
EXTRACT CONTACT INFORMATION OF SENDER FROM EMAIL MESSAGE
530
COMPARE EXTRACTED CONTACT INFORMATION WITH PREVIOUSLY-STORED LIST OF CONTACTS
540
DETERMINE: CONTACT INFORMATION LOCATED IN PREVIOUSLY-STORED LIST?
NO
YES
550
DETERMINE: SENDER PRESENT ONLINE?
NO
END
YES
560
INITIATE INSTANT MESSAGING (IM) CHAT SESSION WITH SENDER

FIG. 5

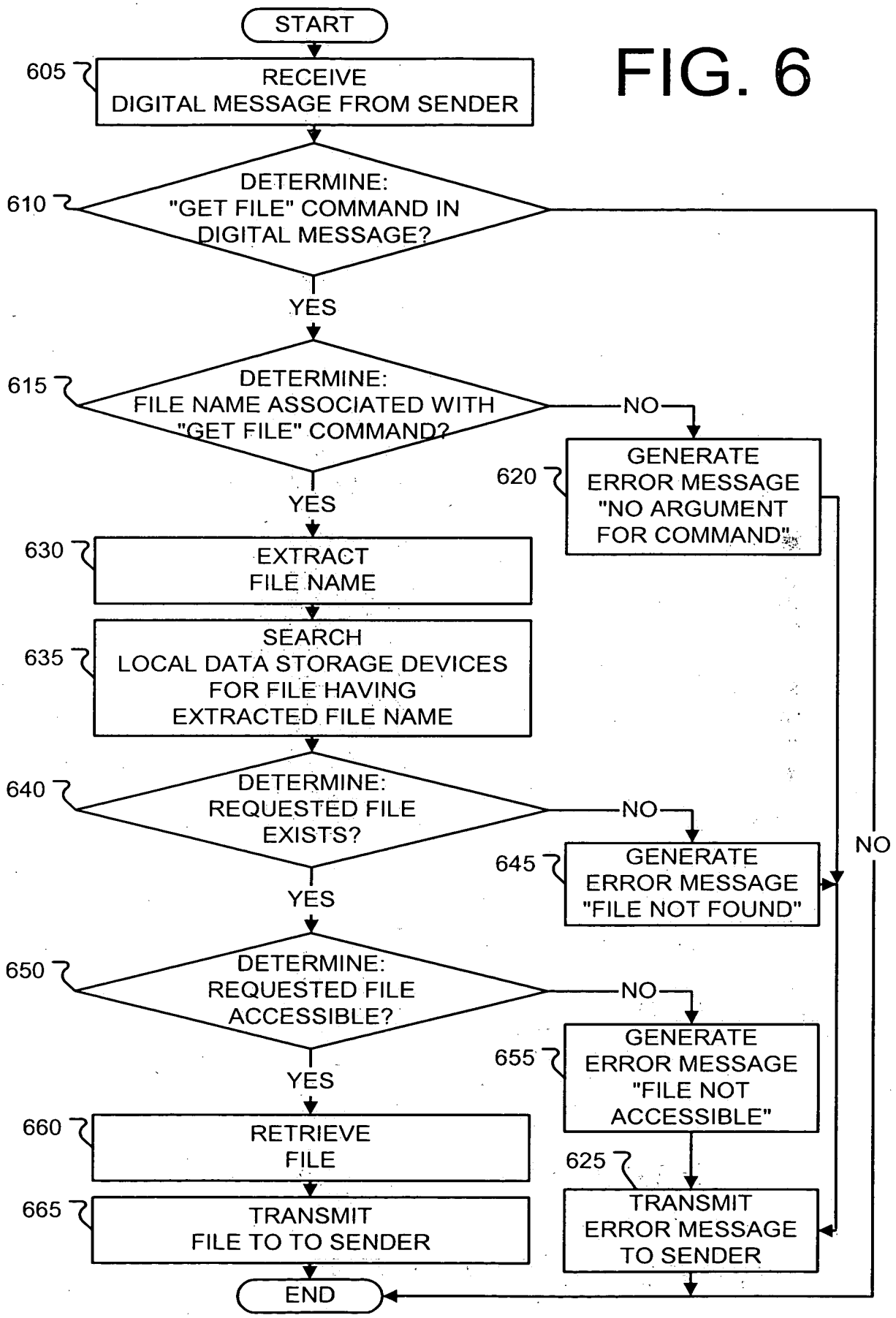
START
605
RECEIVE DIGITAL MESSAGE FROM SENDER
610
DETERMINE: "GET FILE" COMMAND IN DIGITAL MESSAGE?
YES
615
DETERMINE: FILE NAME ASSOCIATED WITH "GET FILE" COMMAND?
NO
620
GENERATE ERROR MESSAGE "NO ARGUMENT FOR COMMAND"
YES
630
EXTRACT FILE NAME
635
SEARCH LOCAL DATA STORAGE DEVICES FOR FILE HAVING EXTRACTED FILE NAME
640
DETERMINE: REQUESTED FILE EXISTS?
NO
645
GENERATE ERROR MESSAGE "FILE NOT FOUND"
YES
650
DETERMINE: REQUESTED FILE ACCESSIBLE?
NO
655
GENERATE ERROR MESSAGE "FILE NOT ACCESSIBLE"
YES
660
RETRIEVE FILE
665
TRANSMIT FILE TO TO SENDER
625
TRANSMIT ERROR MESSAGE TO SENDER
NO
END

FIG. 6

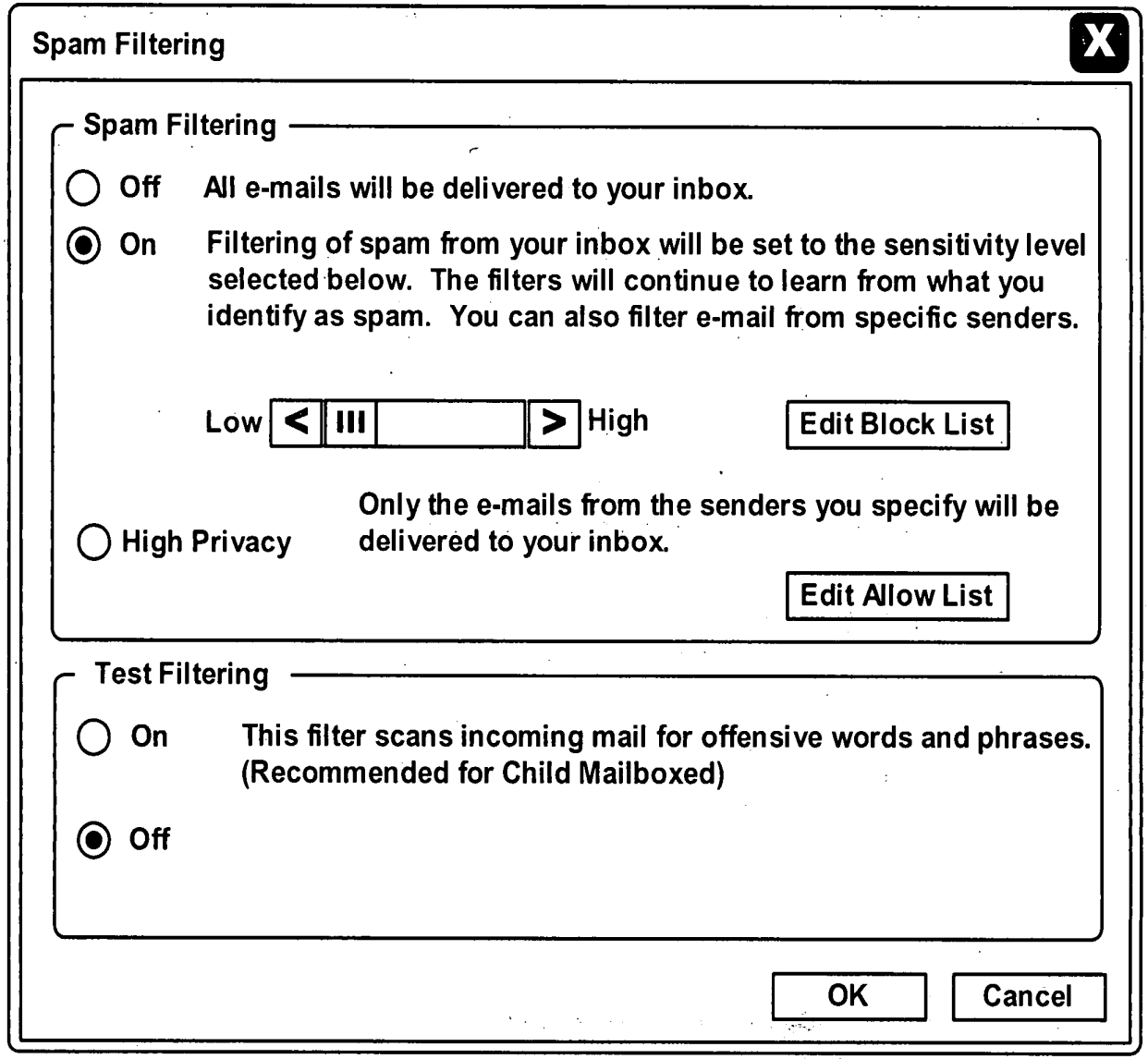
Spam Filtering
Spam Filtering
Off
All e-mails will be delivered to your inbox.
On
Filtering of spam from your inbox will be set to the sensitivity level selected below. The filters will continue to learn from what you identify as spam. You can also filter e-mail from specific senders.
Low
High
Edit Block List
High Privacy
Only the e-mails from the senders you specify will be delivered to your inbox.
Edit Allow List
Test Filtering
On
This filter scans incoming mail for offensive words and phrases. (Recommended for Child Mailboxed)
Off
OK
Cancel

FIG. 7